

1      What is claimed is:

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3            1.        A washing machine comprising:  
4                    a tub holding laundry, water, and detergent;  
5                    a detergent storing assembly storing the detergent and providing the detergent to the  
6                    tub on washing;  
7                    a cabinet having the tub installed inside wherein the detergent storing assembly is  
8                    loaded on a loading hole formed at one side of the cabinet; and  
9                    a packing means sealing a gap between the detergent storing assembly and the  
10                  cabinet to prevent external water from flowing in the cabinet.

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12            2.        The washing machine as claimed in claim 1, wherein the detergent storing  
13                  assembly comprises;  
14                    a detergent box provided to the loading hole to store the detergent, and  
15                    a lid part fixed to a topside of the detergent box to open/close.

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17            3.        The washing machine as claimed in claim 2, the lid part comprising:  
18                    a lid frame fixed to the detergent box and having an opening at a center to put the  
19                  detergent in the detergent box; and  
20                    a revolvable lid installed at one side of the lid frame to open/close the topside of the  
21                  detergent box.

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23            4.        The washing machine as claimed in claim 3, wherein a bottom of the lid  
24                  frame is mounted on a periphery of the loading hole.

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- 26        5.     The washing machine as claimed in claim 4, wherein the packing means is  
27     provided between the bottom of the lead frame and the rim of the loading hole.
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- 29        6.     The washing machine as claimed in claim 5, wherein the lid frame comprises  
30     an insertion groove to which the packing means is fitted.
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- 32        7.     The washing machine as claimed in claim 6, wherein the insertion groove is  
33     formed at the bottom of the lead frame except a portion to which the lid is connected.
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- 35        8.     The washing machine as claimed in claim 7, wherein the packing means  
36     comprises a gasket fitted to the insertion groove, a gasket partially protruding therefrom.
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- 38        9.     The washing machine as claimed in claim 8, wherein the gasket comprises;  
39     a first gasket inserted in a front portion of the insertion groove of the lid frame, and  
40     a second gasket inserted in a rear portion of the insertion groove of the lid frame.
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- 42        10.    The washing machine as claimed in claim 6, wherein a plurality of inclined  
43     protrusions are formed on an inside of the insertion groove to have the packing means slide to  
44     be inserted thereon.
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- 46        11.    The washing machine as claimed in claim 1, wherein the loading hole is  
47     formed at a topside of the cabinet.